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Certificate of Facsimile.

Group Art Unit 1645 TO: (703) 872-9302 FAX NO.: D. Benjamin Borson, Ph.D. FROM: U.S. Patent Application No. 10/722,033; Inventors: Satoru Miyano et al. RE: Entitled, "Inferring Gene Regulatory Networks from Time-Ordered Gene Express Data Using Differential Equations" GENN-01009US1 DBB Our File: Total Pages: 10, including cover sheet September 22, 2004 DATE: Original will follow by mail: No ... If you do not receive all of the pages, please call <u>D. Benjamin Borson, Ph.D.</u> at (415) 362.3800. MESSAGE (if any): Attached please find the following: 1) Information Disclosure Statement; International Search Report;

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SEP 2 2 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application No. 10/722,033

Art Unit: 1645

Inventors: Satoru Miyano et al.

Examiner: Not Assigned

Filed: November 25, 2003

Title: Inferring Gene Regulatory Networks from Time-Ordered Gene Express Data Using Differential

Equations

Customer No. 23910

CERTIFICATE OF FACSIMILE TRANSMISSION UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being transmitted by facsimile to the Commissioner for Patents, the United States Patent and Trademark Office, Facsimile No (703) 872-9302, on September 22, 2004. Total number of pages transmitted: /D_sheets, including cover.

D. Benjamin Burson, Ph.D., Reg. No. 42,349

Signature Date: September 22, 2004

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Mail Stop IDS Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56. If this is a continuation, divisional or continuation-in-part application, it is understood that the Examiner will consider all information which was considered by the Office in a parent application. MPEP §609. Such information therefore is not listed herein unless it is desired that the information be printed on a patent issuing from the subject application.

Enclosed with this statement are the following:

Form PTO-1449. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. §609.

-1-

	A copy of the International Search Report mailed 18 August 2004.
<u> </u>	The present application is being/was filed after June 30, 2003. In accordance with the pre-official gazette waiver of 37 CFR 1.98 (a)(2)(i) posted at:

This statement should be considered because:

- 37 C.F.R. §1.97(b). This statement qualifies under 37 C.F.R. §1.97, subsection (b) because:
 - (1) It is being filed within three months of the filing date of an application other than a continued prosecution application under § 1.53(d);

 -- OR --
 - (2) It is being filed within 3 months of entry of a national stage; — OR --
 - (3) It is being filed before the mailing date of the first Office Action on the merits,
 -- QR --
 - (4) It is being filed before the mailing date of the first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114.

		37 C.F	F.R. §1.97(c). Although it may not qualify under subsection (b), this statement es under 37 C.F.R. §1.97, subsection (c) because:
		(1)	It is being filed before the mailing date of a FINAL Office Action, a Notice of Allowance, or an action that otherwise closes prosecution in the subject application, whichever occurs first.
			AND (check at least one of the following)
			(1) It is accompanied by a STATEMENT as set forth in 37 C.F.R. §1.97(e). OR
	*		(2) It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).
	, <u> </u>	37 C.F	C.R. §1.97(d). Although it may not qualify under subsection (b) or (c), this statement es under 37 C.F.R. §1.97, subsection (d) because:
		(1)	It is being filed on or before payment of the Issue Fee; AND
		(2)	It is accompanied by a STATEMENT as set forth in 37 C.F.R. §1.97(e); AND
		(3)	It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).
<u>/</u>	credit	any o	ntion. The Commissioner is hereby authorized to charge any deficiencies or verpayment to Deposit Account No. 06-1325. A duplicate copy of this is enclosed.
			Respectfully submitted,
-			FLIESLER MEYER LLP
Date:	Spla	who	D. Benjamin Borson, Ph.D. Reg. No. 42,349

FLIESLER MEYER LLP Four Embarcadero Center, Fourth Floor San Francisco, California 94111-4156 Telephone (415) 362-3800

								She	et	ot	
Form PTO-14		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				Attorney Docket Number GENN-01009US1			Serial/Potent Number 10/722,033		
(Substitute)	Information Disclosure State				Patent Owner Miyano et a	al.					
	BY APPLICANT (Use several sheets if necessar			Filing/Issu Nover	ue Date nber 25, 200	3	Group Art 1645	Unit			
		τ	J.S. PA	TENTS	3						
Examiner Initial	Patent Number	Issue Dat	С	Fir	st Named Inven	tor	Class	Subclass	Filin	g Date	
		<u> </u>									
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Examiner Initial	Patent Application Publication	ion Number	:	Publicatio	on Date		A	pplicant			
	US2003/0215786		Nove	mber 20	0, 2003	Colin Hi	ll et al.				
	US2003/0139886		July 2	24, 200	3	Leon J.	Bodzin (et al.			
	US2003/0144823		July :	31, 200	3	Jeffrey J	. Fox et	al.			
	US2003/0018457		Janua	ıry 23, 2	2003	Gregory	S. Lett	et al.			
	PE	NDING U.S	S. PATI	ENT AI	PLICATIO	NS					
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Ċ	THER DOCUMENTS (Inclu	ide withor (if 9	nv) title	publishe	r and place of p	ublication d	ate and pe	rtinent page	5)		
	THER DOCUMENT OF THE PROPERTY	ade author (Per	<u>, </u>				•		
Examiner		•		Date C	onsidered						
*EXAMINER	t: Initial if citation considered, whe and not considered. Include copy o	ether or not cita of this form wit	ation is in th next co	n conform	ance with MPE tion to applican	Р 609. Dтаw it.	line throu	igh citation i	f not ir	1	
*1 = Copy no	t submitted because it was submitte	d in prior appl	ication S	и_/	, filed	, 20	_, relied o	n under 35 U	SC §1	20.	

, filed

*2 = Copy not submitted because it was submitted in prior application SN _/_

, 20____, relied on under 35 USC §120.

STATEMENT

(Attachment to Information Disclosure Statement)
(Use only if required)

<u>/</u>	37 C.F.R. §1.97(e)(1). THE UNDERSIGNED ATTORNEY HEREBY STATES THAT each item of information contained in this <i>Information Disclosure Statement</i> was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this <i>Information Disclosure Statement</i> ; or
_	37 C.F.R. §1.97(e)(2). THE UNDERSIGNED ATTORNEY HEREBY STATES THAT no item of information contained in this <i>Information Disclosure Statement</i> was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this statement after making reasonable inquiry, no item of information contained in this <i>Information Disclosure Statement</i> was known to any individual designated in §1.56(c) more than three months prior to the filing of this statement.
	Respectfully submitted,
	FLIESLER MEYER LLP
Date:	By:
	D. Benjamin Borson

Reg. No. 42,349

FLIESLER MEYER LLP Four Embarcadero Center, Suite 400 San Francisco, California 94111-4156 Telephone: (415) 362-3800 60/428,827

PATENT COOPERATION TREATY

PRECENTED PLES AUG ANDREALLS From the INTERNATIONAL SEARCHING AUTHORITY To: D. BENJAMIN BORSON FLIESLER DUBB MEYER & LOVERJOY LLP FOUR EMBARCADERO CENTER, SUITE 400 NOTIFICATION OF TRANSMITTAL OF SAN FRANCISCO, CA 94111-4156 THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1) Date of Mailing 18 AUG 2004 (day/month/year) Applicant's or agent's file reference GENN01009₩00 ₩ FOR FURTHER ACTION See paragraphs 1 and 4 below International filing date International application No. PCT/US03/37475 🗸 (day/month/year) 25 November 2003 (25.11.2003) Applicant GENE NETWORKS, INC. X The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site. Name and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571) 272-1600 Facsimile No. (703) 872-9306 Fliesler, Meyer LLP Form PCT/ISA/220 (April 2002) (See notes on accompanying sheet) File: <u>GENH-01009US</u> Action Item: Intil Search perart - tas? Date Due: Scotember 13, 2004

Attorney Path: _

Critical Date: Mayumbor 18. 2204

BAG

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference GENN01009WO0	FOR FURTHER ACTION		T/ISA/220) as well as, where applicable, item 5
International application No. PCT/US03/37475	International filing date (day/mor 25 November 2003 (25.11.2003)		(Earliest) Priority Date (day/month/year) 25 November 2002 (25.11.2002)
Applicant GENE NETWORKS, INC.			
This international search report has bee applicant according to Article 18. A co	n prepared by this International S opy is being transmitted to the Inte	earching A	Authority and is transmitted to the Bureau.
This international search report consists	of a total of <u>\$</u> sheets.		•
	I by a copy of each prior art docu	ment cite	d in this report.
1. Basis of the Report		11-	having of the intermetional configuration in the
a. With regard to the language, language in which it was filed	me miemanonal search was carried , unless otherwise indicated under	this item.	e basis of the international application in the
	carried out on the basis of a transl	ation of th	e international application furnished to this
Authority (Rule 23.1(b)). b. With regard to any nucleotide search was carried out on the	e and/or amino acid sequence disc basis of the sequence listing:	losed in th	e international application, the international
· ·	al application in written form.		
filed together with the inter	national application in computer re-	adable for	10.
furnished subsequently to the	is Authority in written form.		α
1 101 2 701	als Authority in computer readable :		
international application as	filed has been furnished.		s not go beyond the disclosure in the
the statement that the information been furnished.	nation recorded in computer readab	le form is	identical to the written sequence listing has
2. Certain claims were found	unsearchable (See Box I).		
3. Unity of invention is lacking	ng (See Box II).		
4. With regard to the title. the text is approved as subm	nitted by the analicant		
	I by this Authority to read as follow	vs:	
the text has been established	by Min Houselfity to Lond in 10.00.		
5. With regard to the abstract,			
the text is approved as subm	nitted by the applicant.		
the text has been established	i, according to Rule 38.2(b), by thi	s Authorit	y as it appears in Box III. The applicant
may, within one month from Authority.	the date of mailing of this interna	tional scar	ch report, submit comments to this
6. The figure of the drawings to be put	blished with the abstract is Figure 1	٠٠	
as suggested by the applican			None of the figures
because the applicant failed	to suggest a figure.		
because this figure better ch	aracterizes the invention.		

	INTERNATIONAL SEARCH RE	PORT	international a	pplication No.
			PCT/US03/374	175
IPC(7) US CL	ASSIFICATION OF SUBJECT MATTER : G01N 33/48 : 702/19			,
B. FII	to International Patent Classification (IPC) or to b	oth national classific	tion and IPC	
Minimum (U.S. :	locumentation searched (classification system follo 702/19,20,27; 435/6,69.1	owed by classification	symbols)	
Documents	tion searched other than minimum documentation	to the extent that such	documents are includ	led in the fields searched
Electronic of Please Sec	lata base consulted during the international search Continuation Sheet	(name of data base ar	ad, where practicable,	search terms used)
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, when	c appropriate, of the	relevant passages	Relevant to claim No.
P,X	U\$ 2003/0215786 A1 (HILL et al.) 20 Novemb	er 2003, see especiali	y the abstract	1. 17, 18, 27, & 28
P,Y		•		2-16 & 19-26
P,X	US 2003/0139886 A1 (BODZIN et al.) 24 July : SUMMARY OF THE INVENTION section in p	2003, see especially the	ne abstract and the	1,17,18,27, & 28
P,Y			_	2-16 & 19-26
P,X — P,Y	US 2003/0144823 A1 (FOX et al.) 31 July 2003 DETAILED DESCRIPTION in paragraphs [001	, see especially the ab 8 - 0135]	stract and the	1,17,18,27, & 28
1,1				2-16 & 19-26
P,X 	US 2003/0018457 A1 (LETT et al.) 23 January 2 DESCRIPTION OF THE PREFERRED EMBOD	2003, see especially the DIMENTS in paragran	e abstract and the	1,17,18,27, & 28
P,Y			(2,00]	2-16 & 19-26
	documents are listed in the continuation of Box C.		it family amex.	
	elining the general state of the art which is not considered to be	date and to principle o	r theory underlying the inven	- 1
	ication or putent published on or after the international filling date hick may throw doubts on priority claim(s) or which is cited to	considerea	of particular relevance; the el novel or cannot be considere ocument is taken alone	aimed invention causet be ad to involve an inventive step
establish the specified)	med may throw doubts on priority claim(s) or which is clied to publication date of another citation or other speolal reason (as	"Y" document o considered	f particular relevance; the ci- to involve an inventive sten s	when the document is 1
	forring to an oral disclosure, use, exhibition or other means	COMUMEA V	of the core of more other such dust to a person skilled in the s	CORRECTED BOOK COMPLICATION
priority date		"&c" document n	combar of the same patent fer	nily
ite of the acti July 2004 (3	nal completion of the international search	Date of mailing of 180	the international search	h report
	ing address of the ISA/US	Authorized officer	VU CUU4	
Mail S Comm	top PCT, Atm: ISA/US Issioner for Patents	Lagerie	Bell-Har	respon
Alexm	ox 1450 dria, Virginin 22313-1450 703) 872-0305	Telephone No. (57	1) 272-1600	U

Form PCT/ISA/210 (second sheet) (July 1998)

PCT/US03/37475

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Form PCT/ISA/210 (second sheet) (July 1998)